

Aviation Issues

for the Force

Future

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Aviation Leader Development

We Develop Leaders by Maximizing Experience and Training

Experience is Gained through Operational Assignments in Formative Years

Training is Gained through Institutional and Self-Development

In the Current Force, Leaders:

- Are Trained in a Single Platform
- Are Focused on Their Mission "Niche"
- Are Exposed to Multi-system, Multi-dimensional Operations at Brigade Level
- Are Selected for Battalion

Command Based on Aircraft Type Requires:

- A Culture Change - Platforms Enabled by Leaders/Soldiers
- Change in Career Progression Model
- Leaders Proficient in the Employment of Different Aircraft

In the Future Force, Leaders:

- Will Be Trained in the Employment of Multiple Systems
- Will Possess Greater Versatility in Executing Reconnaissance, Attack and Lift Missions
- Will Be Exposed to Multi-system, Multi-Dimensional Operations at Battalion Level

• Will be Selected for Battalion Command based on leadership and experience

**Competent, Confident
Leaders in Multi-
dimensional Combined
Arms, Full Spectrum
Operations**

Army Aviation Warrant Officers

Experience at the
Unit of Action Level

Why Aviation Warrant Officers...

Highly Specialized, Single Track Officers

Operational Environment

• Full Spectrum Operations

- MTW, SSC, SASO

• Non-linear, Asymmetric Battle Space

Operational Requirements

• 24-Hour Operations

• BN is the Unit of Maneuver; CO is the Unit of Action

• Potential for TM/PLTs Ops for Increased Battle Space Independent

Operational Imperatives

• Systems and mission complexities require more senior warrant officers (CW3 / CW4) at CO and BN level

• Warfighting continuity in operational units is a must

• As technical and functional leaders - senior AWOs provide valuable skills, guidance, expertise, and depth to

Technical

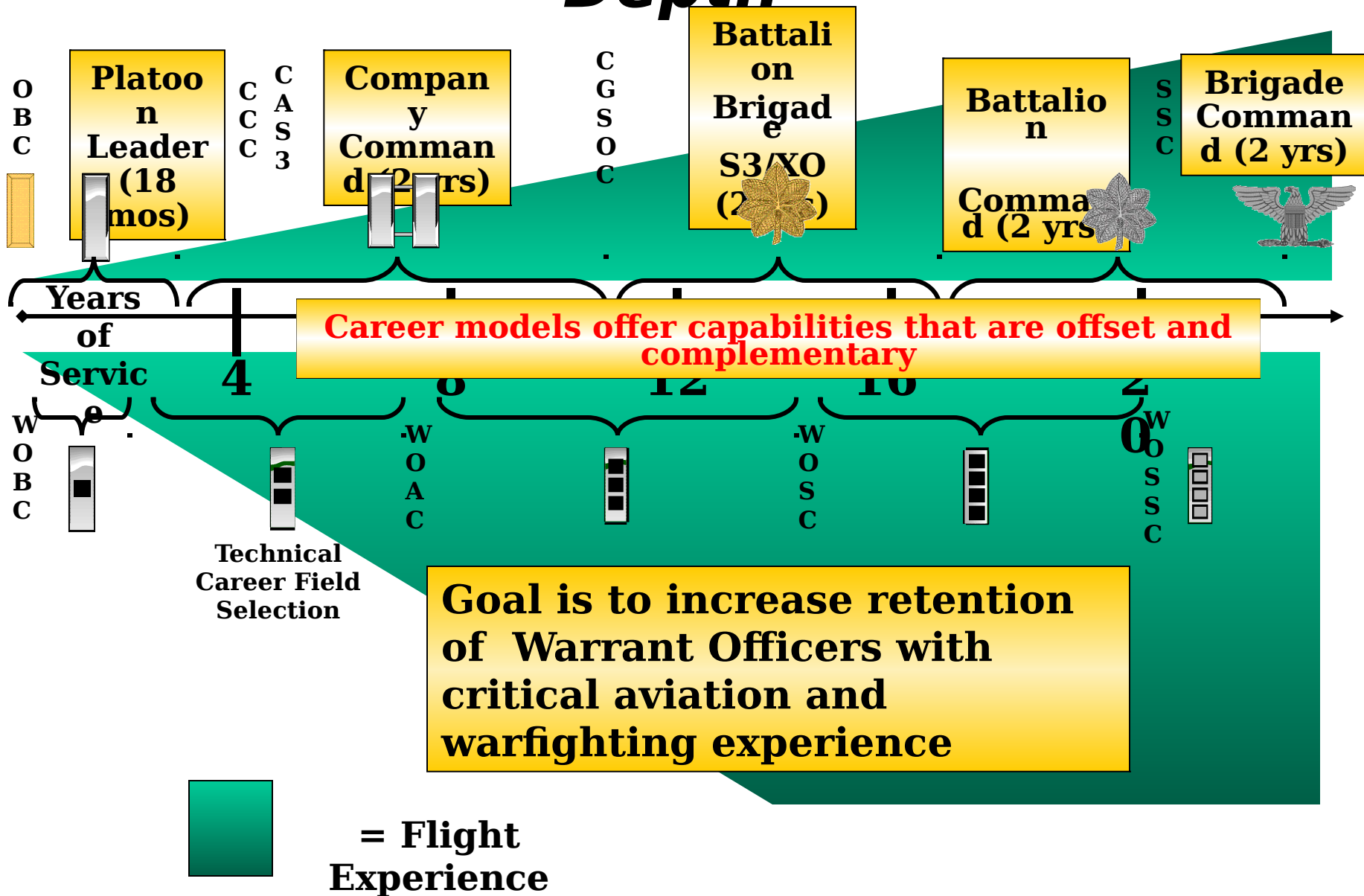
Standardization
Instructor Pilots,
Safety, Maintenance,
Tactical Operations

Functional

Pilots-in-Command,
Flight Leads, Air Mission
Commanders in Recon,
Attack, and Lift Missions

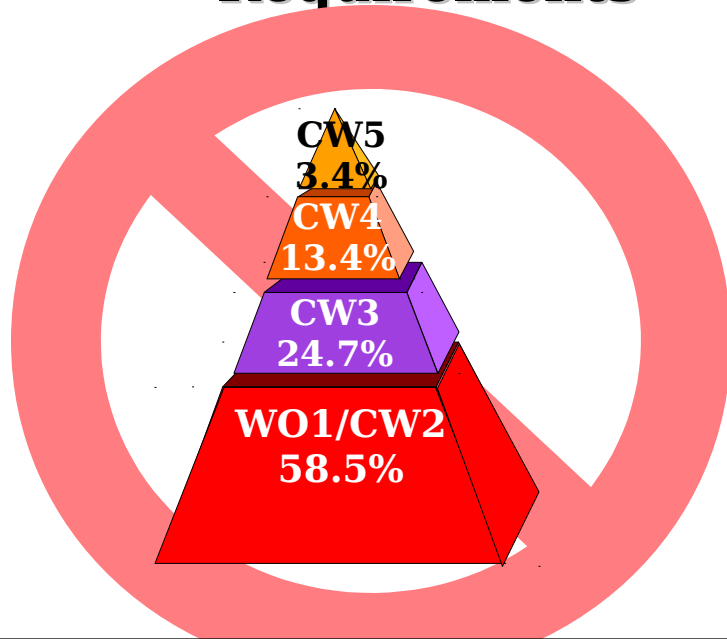
Aviation Warrant Officers are Warfighters!
**Experienced, Capable, Combined Arms
Trained**

Aviation Warrant Officers Add Depth



Aviation Warrant Officer Strategy

**Must have Tailored
Structure to Meet
Operational
Requirements**



**“STANDARD” AVERAGE GRADE
DISTRIBUTION MATRIX (AGDM) IS THE
SAME FOR ALL WARRANT OFFICER
SPECIALTIES - THIS DOES NOT MEET
AVIATION STRUCTURE AND
OPERATIONAL REQUIREMENTS**

AD5 XXI Task Force



**Issues
must be
address
ed**



**Synergy in Establishing the
Right Structure with a
Holistic and Systematic**

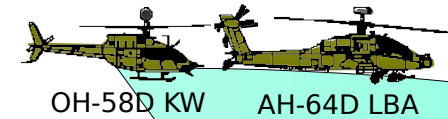
**Approach
Change the current one-
size fits all AGDM to meet
Aviation structure and
operational requirements:**

- Increase grade structure at CW3 and CW4 grade plates to put experience at the CO/BN level
- Allocate sufficient Budgeted End Strength to resource structure, operational requirements and TTHS
- Establish steady state accessions to meet and sustain requirements and structure
- Increase promotion opportunity percentages for CW3 and CW4
- Permit fully qualified AWOCs

Army Aviation Digitization Strategy

Aviation's Digitization Strategy

- Follow 3-phased approach for the modernized fleet and C2 systems



Phase I, FY01-03:

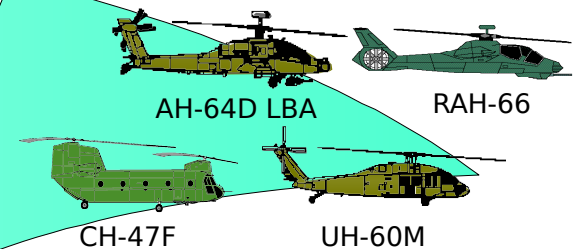
- Limited C2 msgs; No SA

Phase II, FY04-06:

- Modernization production lines for all platforms
 - Implement full IDM+/EBC

Phase III, FY07 and beyond:

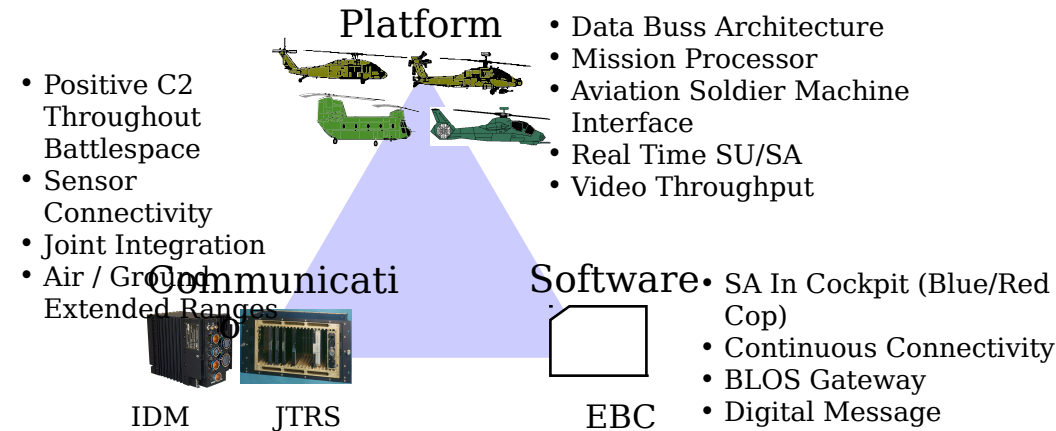
- Embed IDM+/EBC objective functionality for all aircraft
- EPLRS functionality in JTRS/ ICNIA for all aircraft (discrete EPLRS in AH-64D)



- Digitize legacy fleet as aircraft are recapitalized.
- Synchronize aircraft software changes to correlate with major EBC updates.
- Limited capability without JTRS (data, BLOS, imagery). Must pursue interim capability if JTRS continues to slip (EPLRS Appliqué, JCIT).
- Field enablers: automated TOC, A2C2S, TAIS, AMPS

C4ISR Architecture Concept - 'Increased Capability in Objective Force'

TI Connectivity

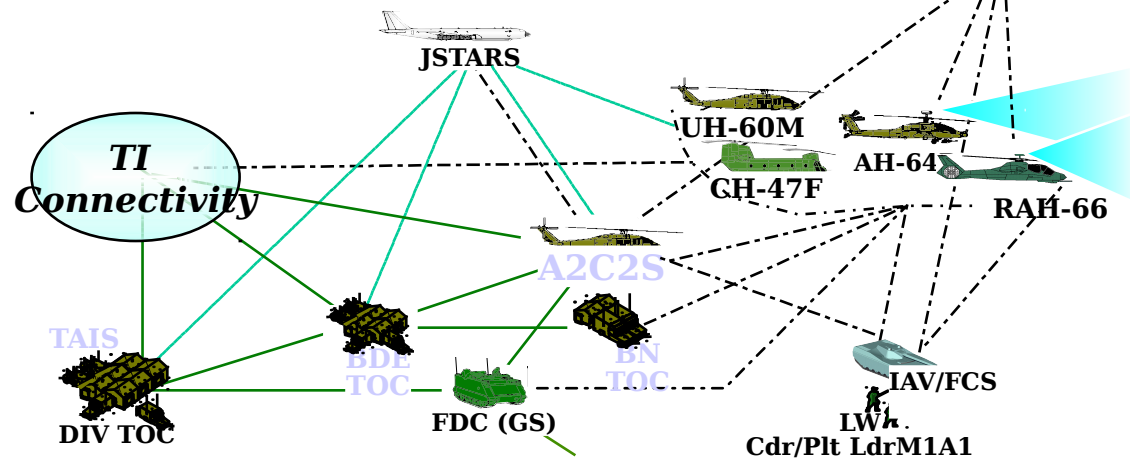


Challenges

- EBC Development
- Tactical Internet Maturity
- NLOS Architecture

Seamless Connectivity During Simultaneous and Sequential Air - Ground Operations, To Include Operational and Tactical Depths

Pacing items: Aviation EBC, JTRS, A2C2S, Digital Aviation Fleet, UAV



"System of Systems Architecture"

Aviation Contributes Info Critical to Situational Understanding Throughout the

TOC C4ISR Functionality



Airborne C2: A2C2S

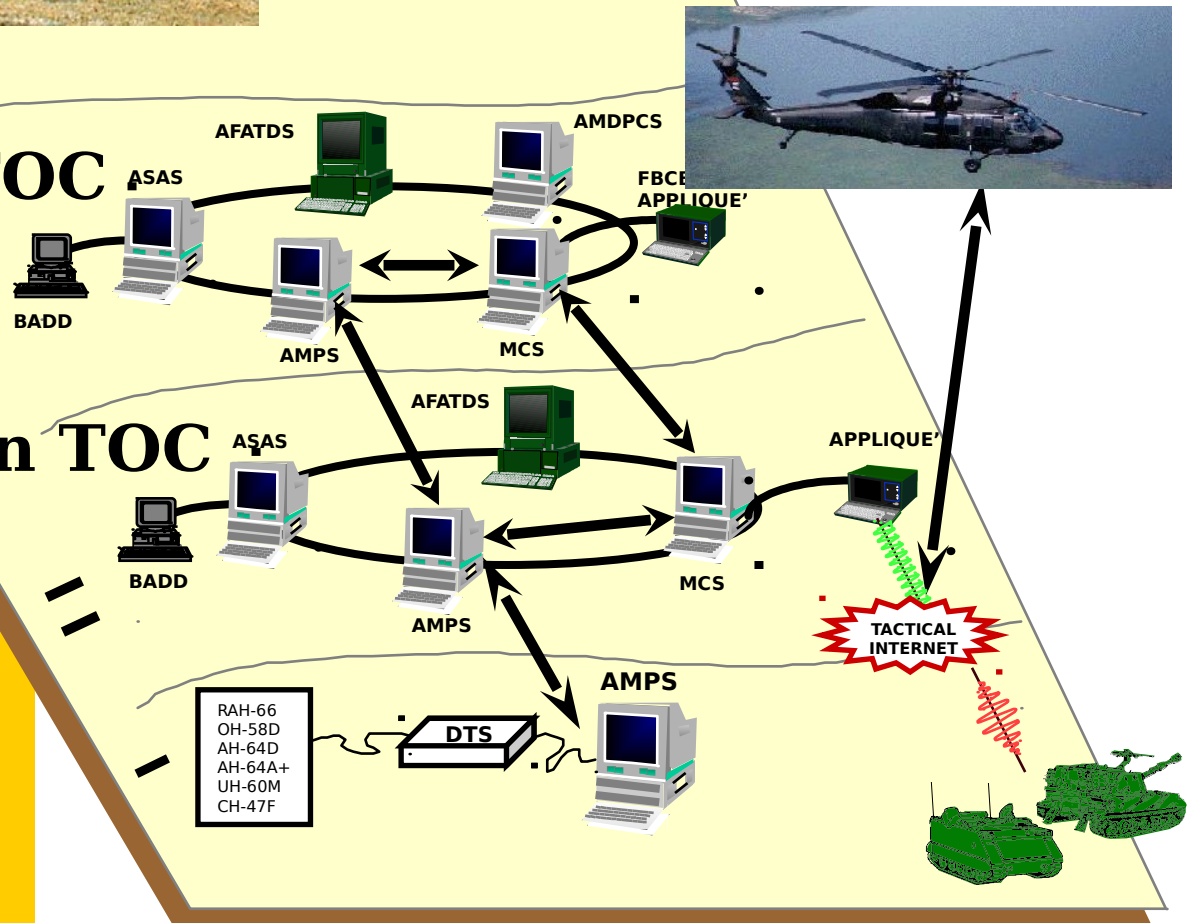
- ✓ C2 On the Move
- ✓ SA--MCS, ASAS, AFATDS, FBCB2, AMPS
- ✓ User Interface--5 workstations, 2 common displays
- ✓ Comms--SINGARS SIP, HQ II, EPLRS, GPS, HF, SATCOM/DAMA, NTDR

TOCs Provide Bde TOC

- ✓ Automated mission planning
- ✓ Real-time situation awareness
- ✓ C4I Node.
- ✓ Integrated ABCS System of Systems

Bn TOC

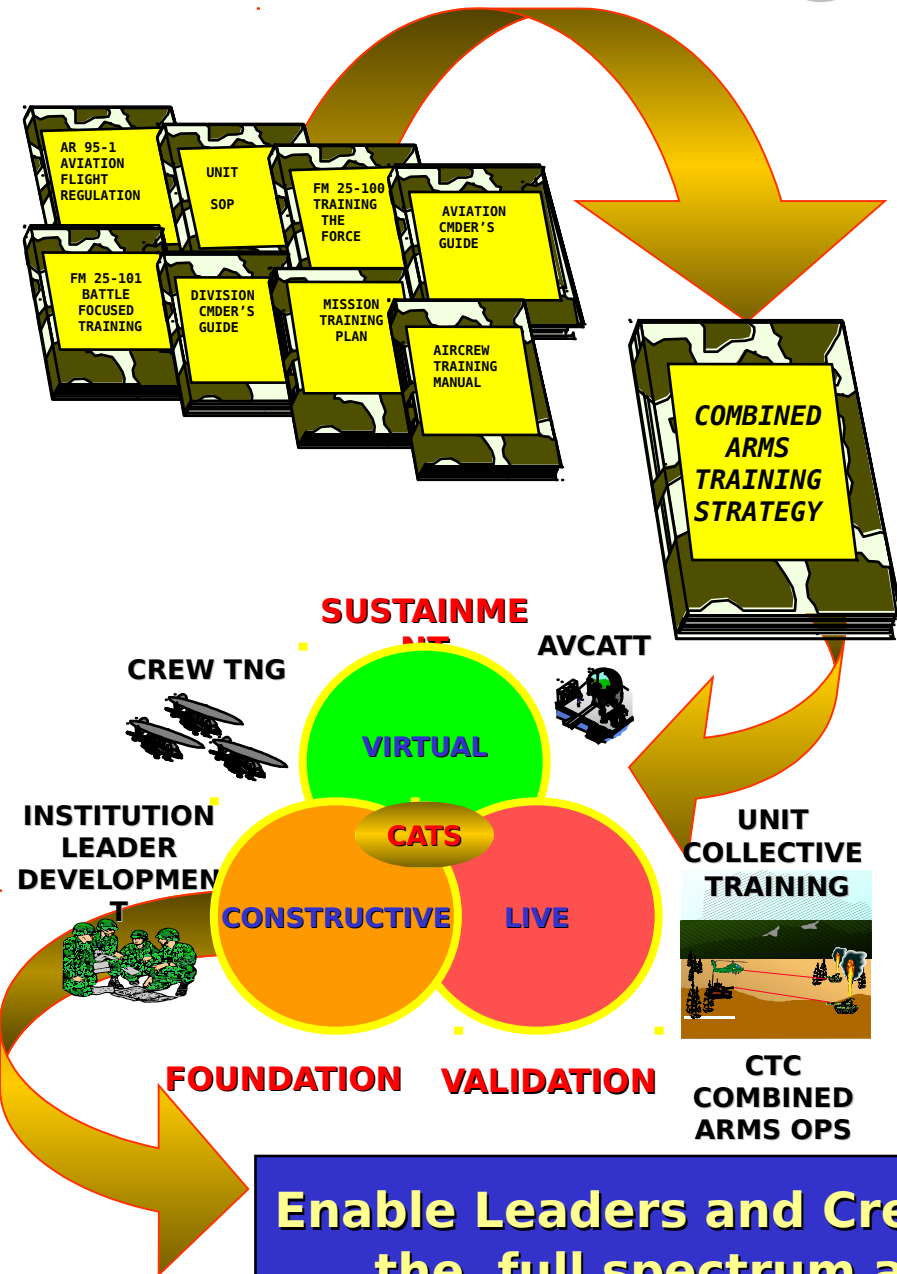
- Friendly Positions
- Enemy Positions
- Constantly updated tactical graphics
- Known Targets of Interest
- On-board correlation of duplicate targets
- SU/SA Integration w/Sensors and C2 Nodes



**Army Aviation
Training & Simulation
Modernization**

Aviation Training Strategy

Institutional Training Base



FT Rucker - EAATS - WAATS

- ❖ Convert to FSXXI Structure by FY02
- ❖ Upgrade Simulations to Leverage Capabilities
- ❖ Priority for Regional Training Sites - Complete Suite of New Simulations
- ❖ Augment Training Base with RC Instructor Pilots
- ❖ Expand EAATS Capability for UH-60 AQC Training
- ❖ Expand WAATS Capability in FY 01 for OH-58A/C Training
- ❖ Augment Ft Rucker with AH-64 IP's in Near Term
- ❖ Transfer of AH-64A Training to WAATS NLT FY04

Home Station Training

Unit Location - Regional - Logistics

- Resource CATS
- Increase DL/Web Base training Capability to facilitate Maintainer/
 - Aircrew/Leader Training in New Systems
- Procure New / Upgrade TADSS/Home Station Instrumentation (HSI)
- Establish Regional Training Centers - Align Units to Ensure Training and
 - Readiness for Augmentation and Backfill Capabilities
- Develop Integrated Logistical Support Plan to Meet Transformation

Enable Leaders and Crews to Fight their combat systems across the full spectrum as part of a joint and combined arms transformation

FLIGHT SCHOOL XXI

Current Void

- Individual Based Proficiency
- Limited Collective / Combined Arms Training
- No Combat Skills Training in Modern Aircraft
- Limited NVG Training In Modern Aircraft
- Lack of Survival/Overwater Training
- RL 3 at Graduation

Key to Future

- Leaders Capable of Leading Upon Arrival to Unit
- Capable of Employing Warfighting Systems
- Maximize use of Simulations in Training Strategy
- Ready for Mission Training
- Competent, Confident, Safe in Executing Unit Mission

What it Does

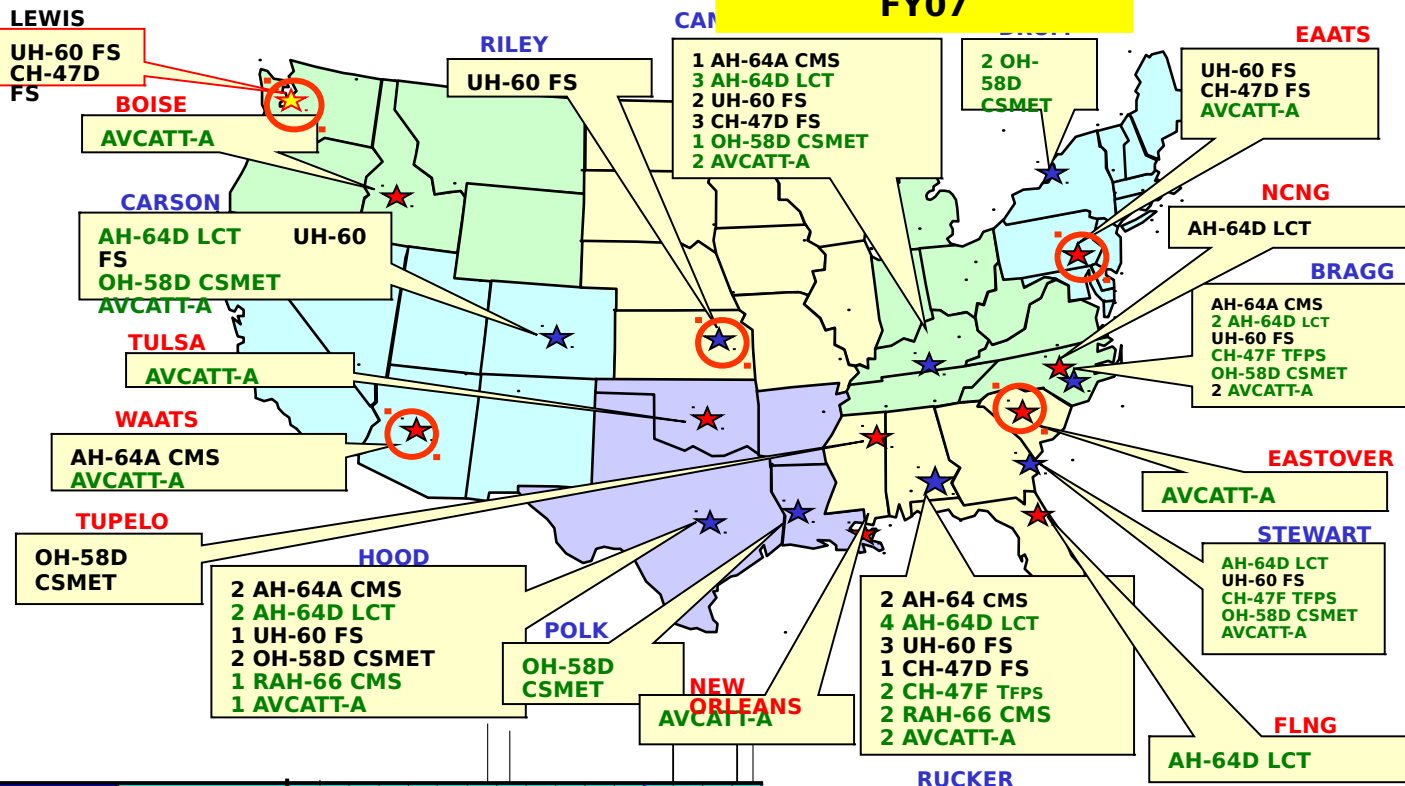
- Increases Training in go-to-war aircraft
- Eliminates UH1 / OH58 & down-training IPs
- Increases modernized aircraft experience in IPs
- Returns IPs to the field
 - Complements Unit CATS
 - SERE & Overwater Training
 - Eliminates IERW
 - Completes TTHS

Enhanced Combat Readiness And Force Protection

**Goal -
Execute
in FY02**

Simulator Modernization Strategy

Simulators thru
FY07



Brigade Simulator Suite

- Longbow Crew Trainer
- Blackhawk Simulator
- Comanche Simulator
- Chinook Simulator (Corps)
- AVCATT-A Collective Trainer

TADSS Issues

- CATS Funding Vital To Validate Training
- Fielding AVCATT-A, LCT and CH-47F TFPs Critical For Sustainment training
- Currency Between Aircraft and Simulator A Must To Replicate Training

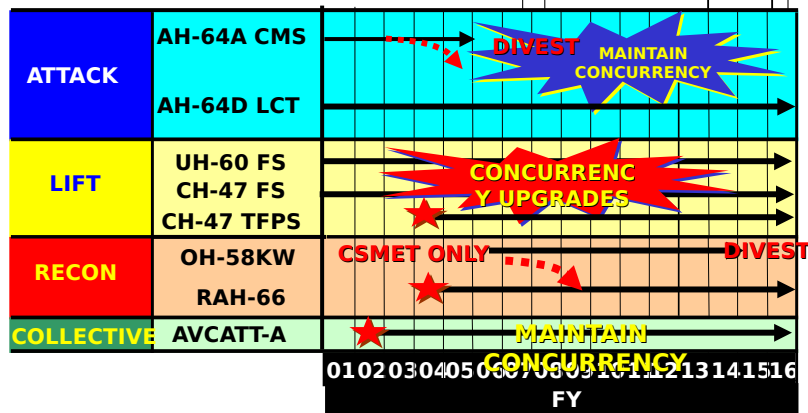
★ - BLUE = ACTIVE COMPONENT

★ - RED = RESERVE COMPONENT

○ - REGIONAL TRAINING SITE

• AC suites co-located with units

• RC simulators regionalized



TADSS modernization is critical to aviation combat effectiveness and ability to train effectively within

Army Aviation

Reliability & Sustainment

Aviation System Reliability

Trend is:

**...Declining Reliability
...Increased MMH/Flt Hr
...Parts Availability Low, Spares**

at Critical Level

**...Increased Safety of Flight/Safety
Action Messages
...Lack of Integrated Management
Information System
...Reduced Maintainers at
Organizational Level
...System Sustainment Technical
Support (SSTS) Resourcing
Decremental
...Lack of Recap Program for Aircraft or**

Flight Safety Components

**...Inspect and Repair as Needed Policy
...Aircraft Exceed Half-Life Metric
...Divestment of Legacy Systems Overdue**

**Will Require
Resources to
Reverse Trend**

**Future Force Demands
Increased Reliability,
Sustainability,
Supportability and
Reduced Log Foot Print**

Fix is:

**...Reverse Trends
...VCSA Directed R&S Task Force
Identified Systemic Deficiencies
and Priority Safety and Reliability
Fixes
...Recapitalization Policy
Established
...Aviation Safety Action Team
Identified Key Component Fixes in
Each Fleet
...Roles and Responsibilities of
Acquisition and Logistics
Communities for Life Cycle
Management Set-
(VCSA/Acquisition Executive
Memo)
...Recap Program Partially Funded
in 02-07 POM
...Force Structure Deficiencies
Addressed in Aviation
Modernization Plan
...Management Information System
Under Development with AMC**

Apache Fleet

High Cost and Sustainment Components:

- TADS / PNVS (30%)
- Rotor (15%)
- Propulsion (12%)
- Drive (11%)
- Avionics (10%)
- Other (22%)

What are We Doing:

- TADS/PNVS Upgrade Under Contract Oct. 00
- Recap Program:
 - o Selective Upgrade A-D MY II for 501 LBA
 - o Applies 38 ECP's and 18/27 Future Initiatives form R&S TF
- Rotor / Drive System under SOF/ASAM Directives
- Still Required Sub Work in Progress:
 - o TADS/PNVS Extended To all Aircraft Beginning FY 05
- Reestablish Component Improvement and Lead the Fleet Programs

"A Snapshot"

AH 64A Mission Capable

	Jul	Aug	Sep	Oct
AC	83	82	83	78
Reserve	65	75	75	63
NG	52	51	53	44
NMCM				
AC	17	18	17	19
Reserve	27	15	15	28
NG	36	35	35	42

• **Parts and Spares Shortage Masked**

by Controlled Substitution

• **Increased Inspections Continue from**

Goal: Increase Reliability, Decrease NMH / Flt Hr, Reduce Inspections, Reduce Flt Hr Costs by FY 03

R&S Management Information System (MIS)

R&S Task Force

1. No Single Agency Responsible for Fleet Mgt.
2. No Data Collection Capability/Process
3. No Integrated Maintenance Mgt. Data Base
4. Many Automated/Manual Systems with Stove Pipe Metrics

R&S Panel Recommendation: DCSLOG

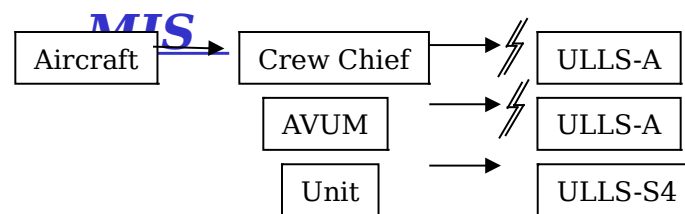
Create an OSMIS Historical Database Enhancement

- Aviation PMS Believe They Are Responsible
- Hoeper - Keane Memo: AMC/MACOMs Responsible For Readiness & Supportability

2. MIS Data Requirements

- Need Clearer Focus On Information Required
- Must Change Focus To **Fleet Metrics**
- Unit & Sustainment Base Requires Better Focus on Data Required To Manage Fleet

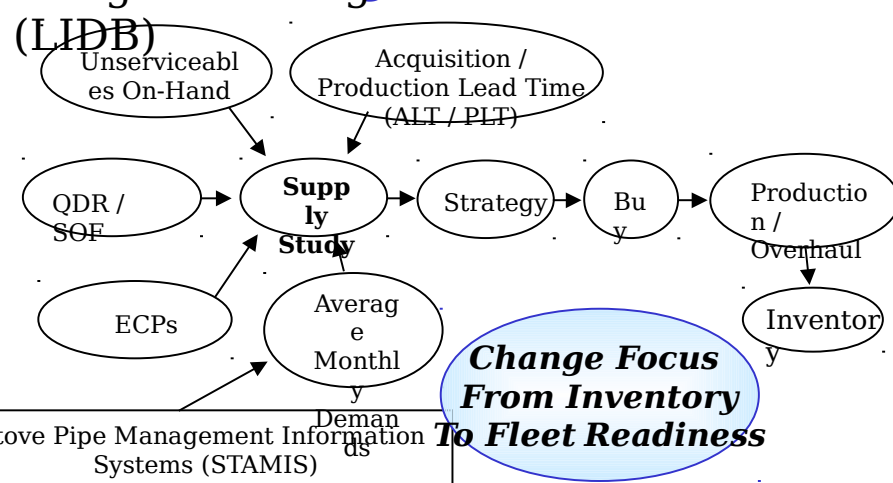
3. Current Unit Level



Possible Interim Solutions:

- Data Collection & Analysis Management Information System (DCAMIS)
- Advanced Maintenance Aid - Chinook (AMAC)

4. Commodity Command Standard



R&S MIS Requires Unity Of Command & Common Focus

R&S MIS Mid Course Corrections

- Establish A “Mind-Set” That Everyone Must Focus On Aircraft Readiness

- DA Establish Fleet Metrics To Focus All Sustainment Initiatives; e.g.:

 - * Lower Flight Hour Costs 10% by 2003

 - * Increase Fleet Readiness 5% by 2004

 - * Reduce Logistics Footprint 50% by 2010

- Use DCAMIS & AMAC As An Interim Solution & Test Bed For PM GCCS-A Aviation Maintenance Module

- Establish Shared Data Environment For Storage/Retrieval of All Aviation Logistical Information, e.g. LIDB

- DA Place Priority on Keeping GCSS-A Aviation Maintenance Module Funded & On Schedule As Aviation Logistics MIS Objective Solution

- Focus Supply System on Readiness vice Inventory --

GCSS-A Should Be The Objective Solution For Aviation

Summary

Summary of Decisions

☐ **1. Approve Aviation Objective Force
Organizational Design**

☐ **2. Approve RAH-66 Comanche as the Multi-
Role Reconnaissance and Attack System for
the Objective Force**

☐ **3. Approve the Aviation Transformation
Strategy and the Development of an
Implementation Plan**



Recommendation



**Continue to Work
Implementation Strategy and
Objective Force Concept**



***"This is about our Future,
about leaders & soldiers."***

